

Filename: PMP5595 REV_B_bom.xls

Date: 12/01/2010

PMP5595 REV_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
4	C1	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std
	C2	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std
	C3	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std
	C4	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std
1	C5	1nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std
1	C6	0.1uF	Capacitor, Ceramic, 100V, X7R, 10%	0805	C2012X7R2A104K	TDK
1	C7	1000pF	Capacitor, Ceramic, 2kV, X7R 10%	1808	C4520X7R3D102K	TDK
1	C8	2200pF	Capacitor, Ceramic, 2kV, X7R, 20%	1812	C4532X7R3D222K	TDK
1	C9	22uF	Capacitor, Aluminum, 100V, 20%	8x10.2mm	EEVFK2A220P	Panasonic
1	C10	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std
1	C11	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std
1	C12	22uF	Capacitor, Ceramic, 16-V, X5R, 20%	1210	C3225X5R1C226M	TDK
1	C13	220uF	Capacitor, Aluminum, 16V, 20%	0.217 x 0.169	EEEFK1C221XP	Panasonic
1	C14	0.22uF	Capacitor, Ceramic, 16V, X7R, 10%	0805	Std	Std
1	C15	22uF	Capacitor, Aluminum, 16V, ±20%	0.200 x 0.210 inch	EEVFK1C220UR	Panasonic
2	C16	DNP	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C17	150pF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C18	2.2nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
2	C19	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
	C20	dnp	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
	C21	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C100	1uF	Capacitor, Ceramic, 25V, X7R, 10%	0805	Std	Std
1	D1	SMAJ58A	Diode, TVS, 58-V, 1W	SMA	SMAJ58A	Diodes Inc.
1	D2	HD01-T	Bridge Rectifier, 100V, 0.8A, Glass Passivated, SMD	MINI DIP4	HD01-T	Diodes, Inc
1	D3	HD01-T	Bridge Rectifier, 100V, 0.8A, Glass Passivated, SMD	MINI DIP4	HD01-T	Diodes, Inc
1	D4	B3100	Diode, Schottky, 3A, 100V	SMC	B3100-13-F	Diodes
2	D5	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	On Semi
1	D6	BAS16	Diode, Switching, 200mA, 75V, 225mW	SOT-23	BAS16LT1	On Semi
1	D7	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild
	D8	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	On Semi
2	FB1	15-Ohms	Bead, Ferrite, SMT, 15-Ohms, 1500mA	0805	MMZ2012R150A	Steward
	FB2	15-Ohms	Bead, Ferrite, SMT, 15-Ohms, 1500mA	0805	MMZ2012R150A	Steward
1	J1	TMM-103-01-G-D-f	Header, 2x3 Vert 2 mm spacing	6.1 x 7.4 mm	TMM-103-01-G-D-RA	SAMTEC
1	J2	TMM-107-01-G-D-f	Header, Right Angle 14 pins	5.00 x16.00 mm	TMM-107-01-G-D-RA	SAMTEC
1	J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	J4	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	
1	J5	520252	Connector, Jack, Modular, 8 POS	0.705 x 0.820	520252	AMP

1	J6	520252	Connector, Jack, Modular, 8 POS	0.705 x 0.820	520252	AMP
1	L1	4.7uH	Inductor, SMT, 1.5A, 90milliohm	4.45x6.6mm	DO1608C-472ML_	Coilcraft
1	L2	1.0uH	Inductor, SMT, 2.9A, 50milliohm	0.26x0.09 inch	DO1608-102ML	Coilcraft
1	Q1	Si7818DN	MOSFET, N-Chan, 150V, 135milliohm, 3.4A	1212-8 SINGLE	Si7818DN	Vishay
4	R1	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
	R2	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
	R3	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
	R4	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
1	R5	100K	Resistor, Chip, 1/10W, 5%	0805	Std	Std
1	R6	24.9K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R7	20	Resistor, Chip, 1/16-W, 5%	0603	Std	Std
1	R8	60.4K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R9	80.6K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R10	1.27K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R11	10K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R12	0	Resistor, Chip, 1/16-W, 5%	0603	Std	Std
2	R13	49.9	Resistor, Chip, 1/16W,1%	0603	Std	Std
	R14	49.9	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R15	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	0.33	Resistor, Chip, 1/2W, 1%	2010	Std	Std
1	R17	100K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R18	220K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	2.21K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R20	2K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R21	dnp	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	26.1K	Resistor, Chip, 1/16W,1%	0603	Std	Std
1	R23	274K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	39.2K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	100k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	T1	H2019	Xfmr, Center-tapped, Voice Over IP	0.500 x 0.370	H2019	Pulse
1	T2	PA1276NL	Transformer, Flyback For PoE, 13W, 12V	0.700 x 0.530 inch	PA1276NL	Pulse
5	TP1	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
4	TP2	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP3	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP4	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP5	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
6	TP6	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP7	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
5	TP9	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP10	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP11	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP12	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone

	TP13	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP14	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP15	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP16	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP18	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP19	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP20	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP21	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP22	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
1	U1	TPS23753APW	IC, IEEE 802.3af Integrated Primary Side Controller	TSSOP14	TPS23753PW	TI
1	U2	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI
1	U3	TCMT1107	IC, Photocoupler, 3750VRMS, 80-160% CTR	MF4	TCMT1107	Vishay

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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